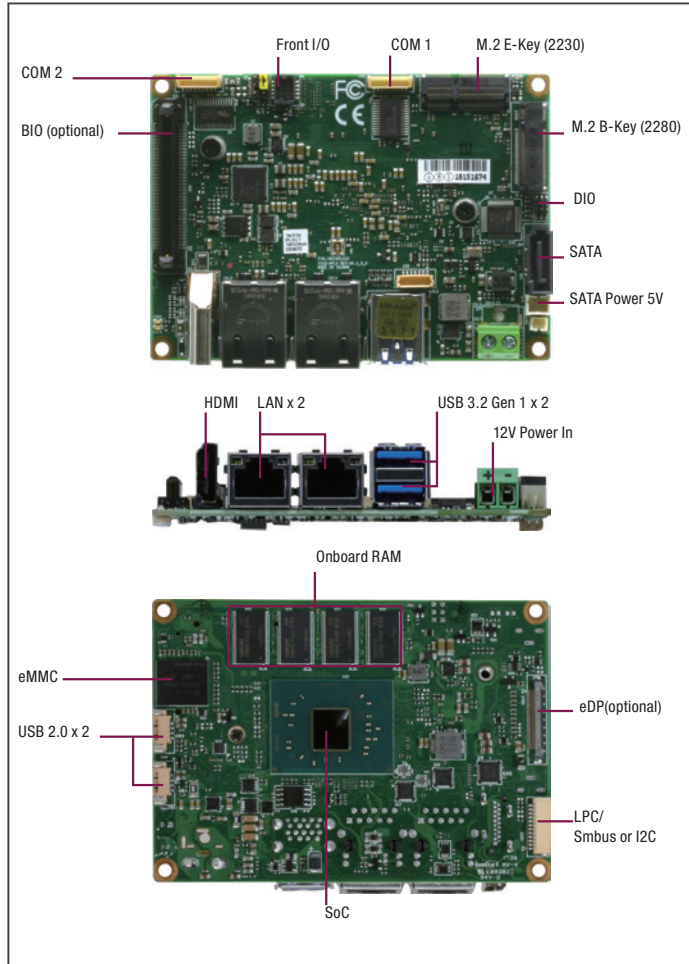


# PICO-APL4

Pico-ITX Board with Intel® Atom™/ Pentium® N4200/ Celeron® N3350 Processor SoC



## Features

- Intel® Atom™/ Pentium® N4200/ Celeron® N3350 Processor SoC
- Onboard DDR3L 2GB (Optional to 4GB)
- Onboard Storage eMMC 32GB (optional to 16GB/64GB/128GB)
- Dual Gigabit Ethernet Support
- HDMI 1.4b, eDP (Optional) for Display
- BIO Reserved (Optional)
- USB 3.2 Gen 1 x 2, USB 2.0 x 2, SATA 6.0Gb/s x 1
- M.2 B Key (2280) x 1, M.2 E Key (2230) x 1



Resolution	HDMI 1.4b: 3840 x 2160@30Hz Internal eDP: 3840 x 2160@60Hz (Optional) DDI (Optional from BIO)
LCD Interface	eDP
<b>I/O</b>	
Storage/SSD	SATA 6.0Gb/s x 1, 5V Power reserved M.2 2280 (B Key) x 1 eMMC 32GB (Optional to 16GB/64GB/128GB)
Ethernet	Realtek 8111G x 2
USB Port	USB 3.2 Gen 1 x 2 Rear IO USB 2.0 x 2 (Internal, co-use with FAN connector)
Serial Port	COM1: RS-232 x 1 COM2: RS-232/422/485 x 1
Audio	—
DIO	4-bit
Expansion Slot	M.2 2230 x 1 (E-Key) BIO x 1 (optional) I2C, Smbus
SIM	—
TPM	—
Touch	—

## Specifications

System	
Form Factor	Pico-ITX
CPU	Intel® Pentium® N4200 (4C. 1.1 GHz, up to 2.5 GHz, TDP 6W) Intel® Celeron® N3350 (2C. 1.1 GHz, up to 2.4 GHz, TDP 6W) Intel® Atom® x7-Series (4C. 1.6GHz, up to 2.00 GHz, TDP 12W)
CPU Frequency	Up to 2.4GHz
Chipset	Intel® SoC
Memory Type	Onboard DDR3L 2GB (Optional to 4GB)
Max. Memory Capacity	Up to 4GB
BIOS	AMI/SPI
Wake On LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+12V, AT/ATX
Power Supply Type	Lockable & Phoenix Terminal co-lay
Power Consumption (Typical)	Intel®Pentium®N4200@1.1GHz,DDR3L 4GB 1.43A@+12V
System Cooling	Heat-spreader, heatsink & cooler (Optional)
Dimension	3.94" x 2.84" (100 mm x 72 mm)
Gross Weight	0.55 lb (0.25 kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	191,895
Certification	CE,FCC
Display	
Chipset	Intel® SoC

## Packing List

- PICO-APL4

## Optional Accessories

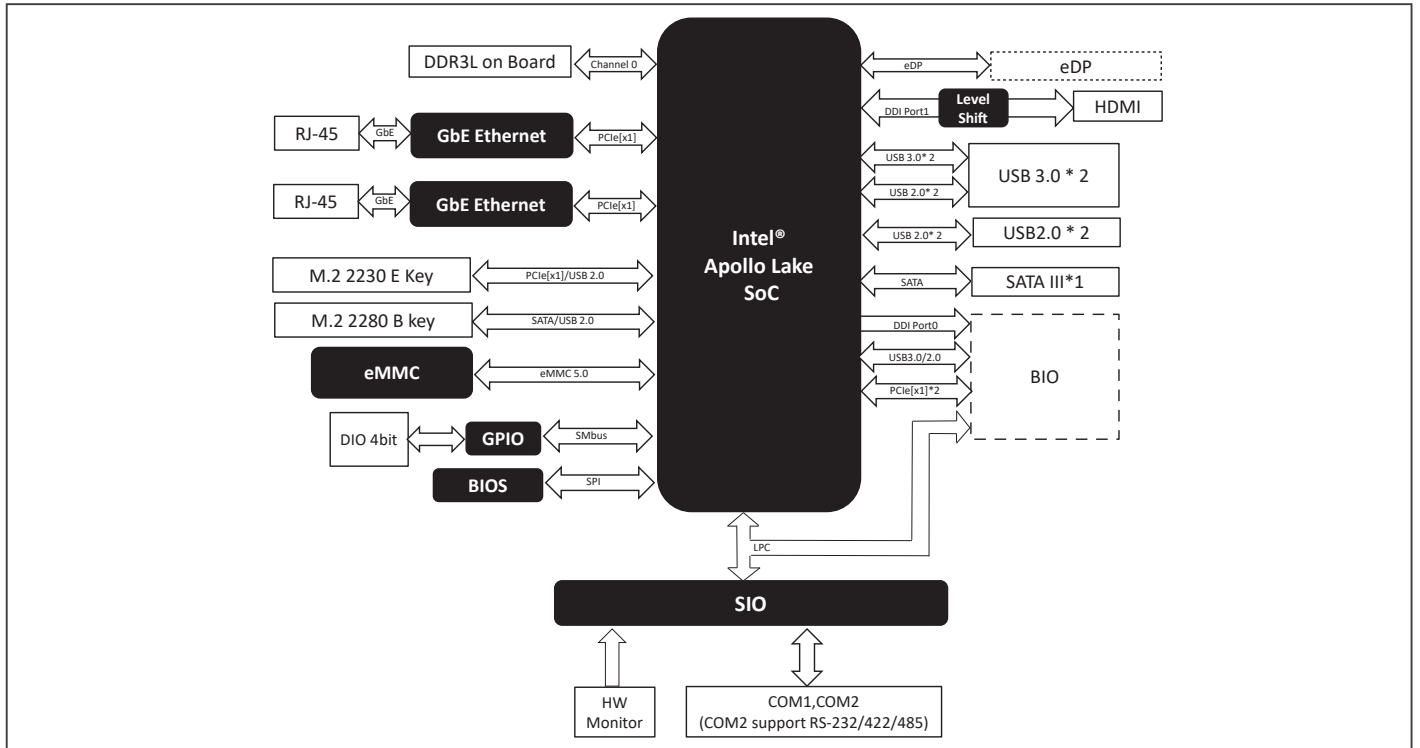
Part Number	Description	Qty
1709070500	(TF) SATA Cable, 50cm	1
1702150155	(TF) SATA Power Cable, 12cm	1
PICO-APL4-HSK01	Heat Sink.100*72*15.5mm.Silver.used with HSP	1
PICO-APL4-HSP01	Heat Spreader, 100 x 72 x 8.5 mm, Silver	1
1700040151	(TF) USB Cable, 15cm	2
1701090122	(TF)Flat Cable, D-Sub 9P(M), 9P 1.0mm Housing, 12cm	2
PICO-APL4-FAN01	CPU Cooler, 100*72*15.5mm, Silver, use w/HSP	1

\*FAN Solution will be via one of internal USB port without FAN speed control.

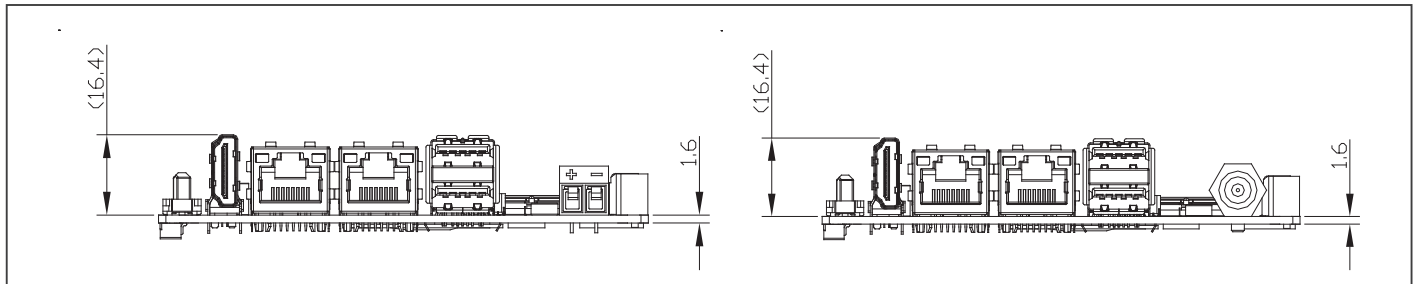
\*Please refer to PICO-APL4-SEMI for further option.

\*eDP cable custom by required

### Block Diagram



### Dimension Unit: mm



### Ordering Information

Part Number	CPU	Memory	Thermal	Display	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Temp.	Others
PICO-APL4-A10-F001	Celeron® N3350 (Dual Core)	Onboard DDR3L 2GB	W/o Heatspreader	HDMI x 1	SATA 6.0Gb/s x 1 M.2 2280 (B Key) x 1 eMMC 32GB	GbE x 2	USB 3.2 Gen 1 x 2 (Rear) USB 2.0 x 2 (Internal)	1	1	M.2 2230 (E Key) x 1	+12V (Phoenix Terminal)	0°C ~ 60°C	DIO 4 bit
PICO-APL4-A10-F002	Celeron® N3350 (Dual Core)	Onboard DDR3L 4GB	W/o Heatspreader	HDMI x 1 eDP x 1	SATA 6.0Gb/s x 1 M.2 2280 (B Key) x 1 eMMC 32GB	GbE x 2	USB 3.2 Gen 1 x 2 (Rear) USB 2.0 x 2 (Internal)	1	1	M.2 2230 (E Key) x 1	+12V (Phoenix Terminal)	0°C ~ 60°C	DIO 4 bit
PICO-APL4-A10-F003	Pentium® N4200 (Quad Core)	Onboard DDR3L 4GB	W/o Heatspreader	HDMI x 1	SATA 6.0Gb/s x 1 M.2 2280 (B Key) x 1 eMMC 32GB	GbE x 2	USB 3.2 Gen 1 x 2 (Rear) USB 2.0 x 2 (Internal)	1	1	M.2 2230 (E Key) x 1	+12V (Phoenix Terminal)	0°C ~ 60°C	DIO 4 bit
PICO-APL4-A10-FD04	Celeron® N3350 (Dual Core)	Onboard DDR3L 2GB	W/o Heatspreader	HDMI x 1	SATAIII x 1 M.2 2280 (B Key) x 1 eMMC 32GB	GbE x 2	USB 3.2 Gen 1 x 2 (Rear) USB 2.0 x 2 (Internal)	1	1	M.2 2230 (E Key) x 1	+12V (DC Jack)	0°C ~ 60°C	DIO 4 bit

Remark: cooler is recommended as the thermal solution.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Single Board Computers](#) category:*

*Click to view products by [Aaeon](#) manufacturer:*

Other Similar products are found below :

[EMB-IB897-I45P](#) [MVME61006E-2173R](#) [5962-8872609LA](#) [BLKNUC7I3DNHNC1978015](#) [IOT-LS1012A-OXALIS](#) [NITX-300-ET-DVI](#)  
[UPN-EHLX4E-A10-0432](#) [USB HUB HAT](#) [BANANA PI BPI-P2 PRO](#) [ROCK 4C+](#) [ROCK 5B - 8GB](#) [BPI-R2 PRO](#) [PCE-5129G2-00A3](#) [PCA-](#)  
[6029G2-00A3](#) [PCE-5129G2-00A3U](#) [AIMB-706G2-00A3](#) [CM4004016](#) [PICO W](#) [CM4101008](#) [PICO](#) [CM4004000](#) [CM4008008](#) [CM4008032](#)  
[CM4108000](#) [Debug Probe](#) [CM4108008](#) [CM4004008](#) [CM4004032](#) [CM4008000](#) [CM4101016](#) [CM4101032](#) [CM4101000](#) [CM4108032](#)  
[CM4108016](#) [HUMMINGBOARD-I2EX BASE + WIFI/BT](#) [HUMMINGBOARD-I4 PRO + WIFI/BT](#) [VAB-600-B](#) [RT5350F-OLINUXINO-](#)  
[EVB](#) [MITX-440-DVI-2E](#) [NITX-315-DEVKIT](#) [A13-SOM-512](#) [AM3359-SOM-EVB-IND](#) [1996](#) [AIMB-223G2-S0A1E](#) [AIMB-562VG-GRA1E](#)  
[MIO-5270DZ-2GS0A1E](#) [PCE-5126QVG-00A1E](#) [PCE-5125QG2-00A1E](#) [MIO-5251E-S3A1E](#) [MIO-2261Z-2GS6A1E](#)